AMENDMENTS TO THE CLAIMS

(original) A personal authentication method using biological information,
wherein during registration, acquired biological information is frequency-analyzed
using a plurality of frequencies to generate a feature for each frequency and register the
feature, and

wherein the method comprises the steps of:

selecting a frequency used for frequency analysis for authentication from the plurality of frequencies;

performing frequency analysis for acquired biological information of a person to be authenticated using the selected frequency to generate a feature for the frequency; and comparing the generated feature with the feature generated for the same frequency during the registration to perform personal authentication.

- 2. (original) The method of Claim 1, wherein the biological information is an image of an iris of an eye.
- 3. (original) The method of Claim 2, wherein the selection of the frequency during the authentication is performed based on a resolution of an iris image taken during the authentication.

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(original) The method of Claim 3, wherein the resolution of the iris image is 4.

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determined from the iris image itself.

(original) The method of Claim 4, wherein the resolution of the iris image is 5.

determined based on the length of a circumference corresponding to the boundary

between the iris and the pupil of the iris image.

(currently amended) The method of Claim 3, wherein the resolution of the 6.

iris image is determined by predicting a size of the iris taken from information on an

apparatus with which the iris image was taken.

(original) The method of Claim 1, wherein the selection of the frequency 7.

during the authentication is performed based on authentication precision for each

combination of the plurality of frequencies.

8. (original) The method of Claim 7, wherein the authentication precision is

calculated using a distribution of authentication scores between identical persons and a

distribution of authentication scores between different persons.

9. (original) The method of Claim 1, wherein the authentication precision during

the authentication is estimated from the selected frequency.

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10. (original) The method of Claim 9, wherein the authentication precision is

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estimated using a distribution of authentication distances between identical persons and a

distribution of authentication distances between different persons.

11. (original) The method of Claim 9, wherein whether or not the person to be

authenticated should be finally authenticated is judged according to the estimated

authentication precision.

12. (original) The method of Claim 9, wherein a right to be bestowed on the

person to be authenticated after the authentication is controlled according to the estimated

authentication precision.

13. (original) The method of Claim 9, wherein whether or not re-authentication is

performed is judged according to the estimated authentication precision.

14. (original) A personal authentication device using biological information,

wherein during registration, acquired biological information is frequency-analyzed

using a plurality of frequencies to generate a feature for each frequency and register the

feature, and

wherein the device comprises:

means for selecting a frequency used for frequency analysis for authentication from

the plurality of frequencies;

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means for performing frequency analysis for acquired biological information of a person to be authenticated using the selected frequency to generate a feature for the frequency; and

means for comparing the generated feature with the feature generated for the same frequency during the registration to perform personal authentication.

15. (original) The device of Claim 14, wherein the biological information is an image of an iris of an eye.